WT-1011RC AGPRS Software Guide

Software Version 2.2

Note:

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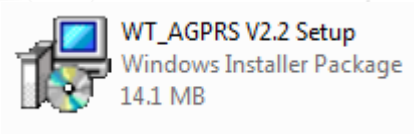
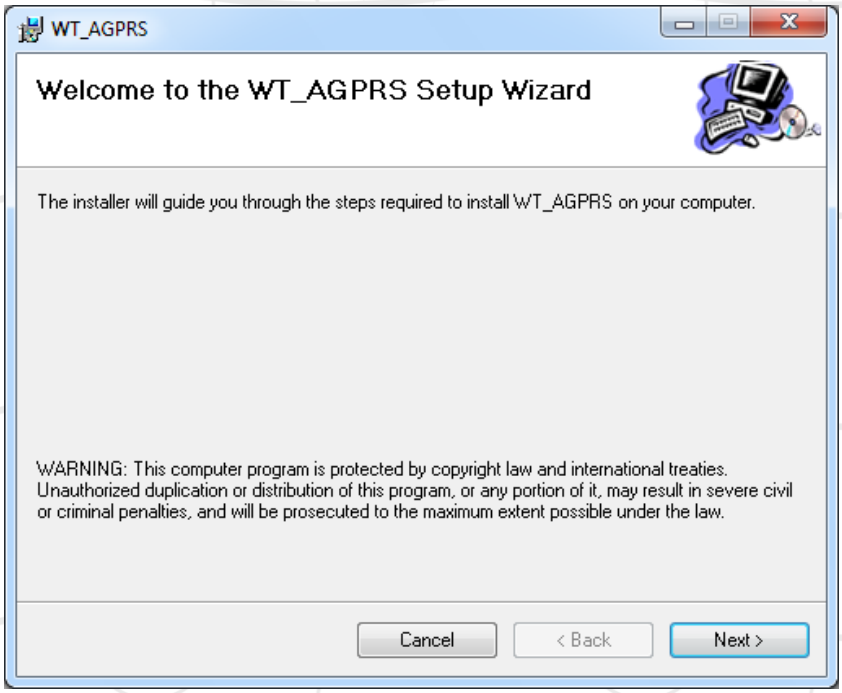
Installing the Software

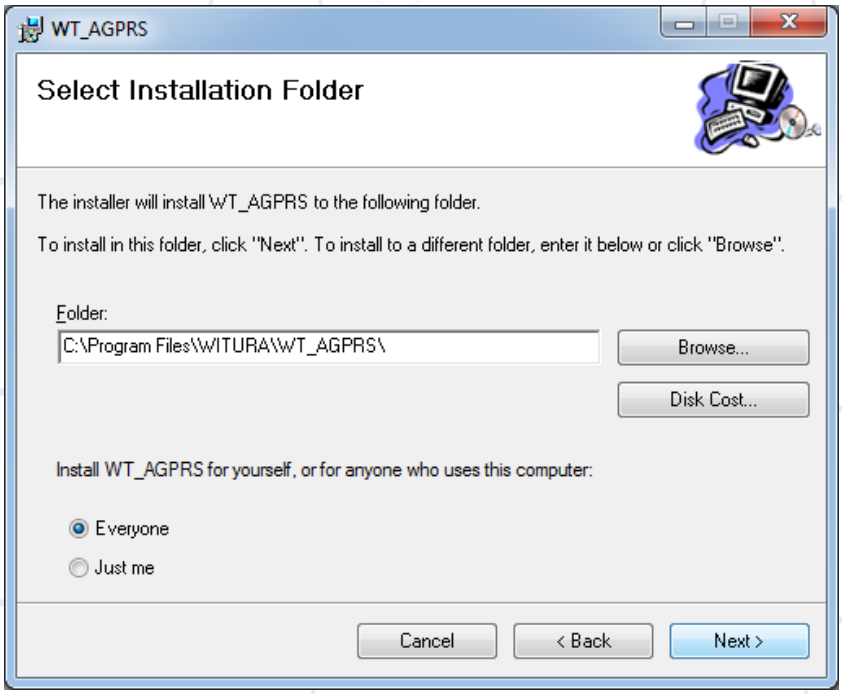
Step 1: Insert the provided WT-1011RC Software CD into your computer. You will find a folder named "**AGPRS Setup**".

Step 2: Double click on the "**WT_AGPRS V2.2 Setup**" setup file to begin installation.

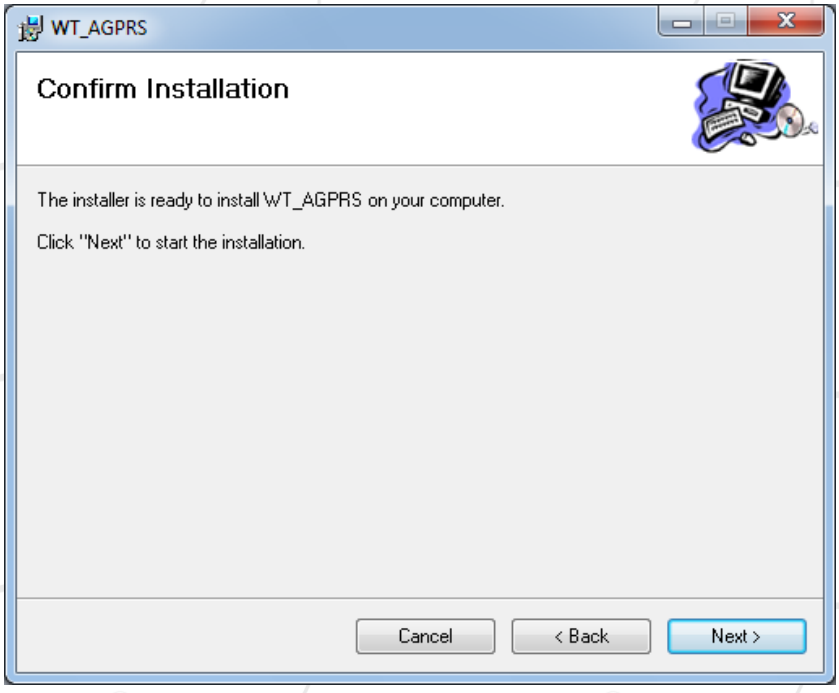


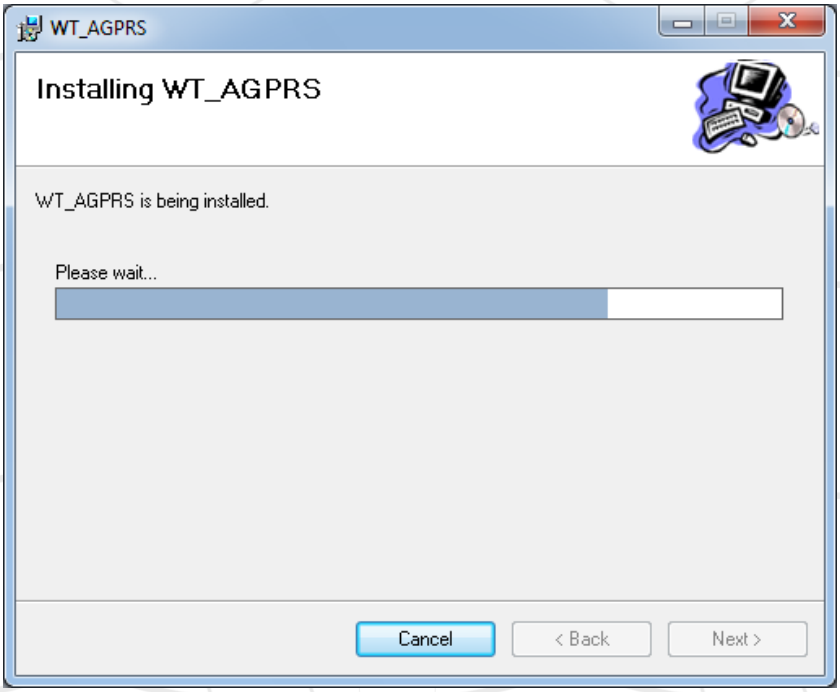

WT_AGPRS
Welcome to the WT_AGPRS Setup Wizard
The installer will guide you through the steps required to install WT_AGPRS on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

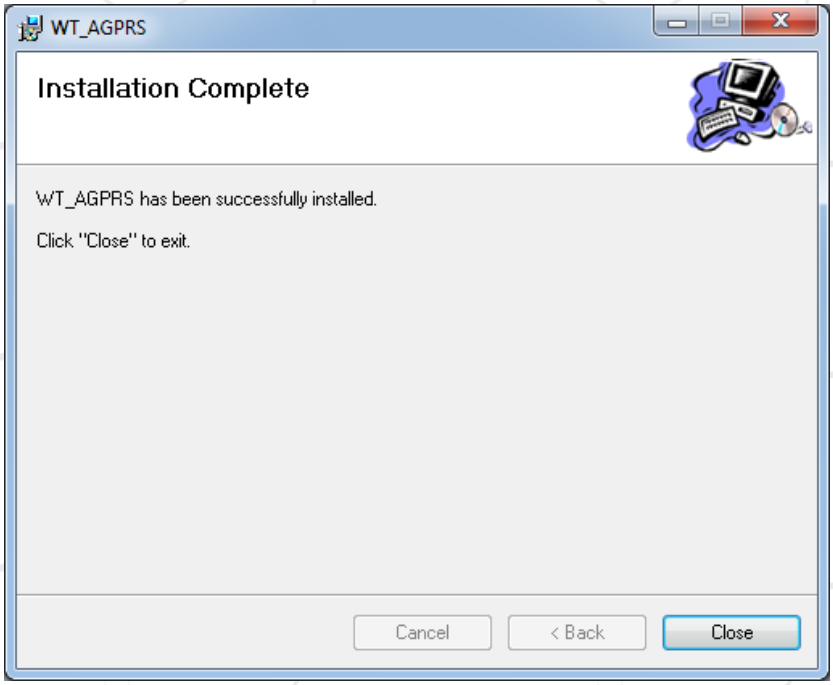
Step 3: Select Installation folder and press Next to continue


WT_AGPRS
Select Installation Folder
The installer will install WT_AGPRS to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\WITURA\WT_AGPRS\
Browse...
Disk Cost...
Install WT_AGPRS for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >

Step 4: Press Next to start installation.


WT_AGPRS
Confirm Installation
The installer is ready to install WT_AGPRS on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >



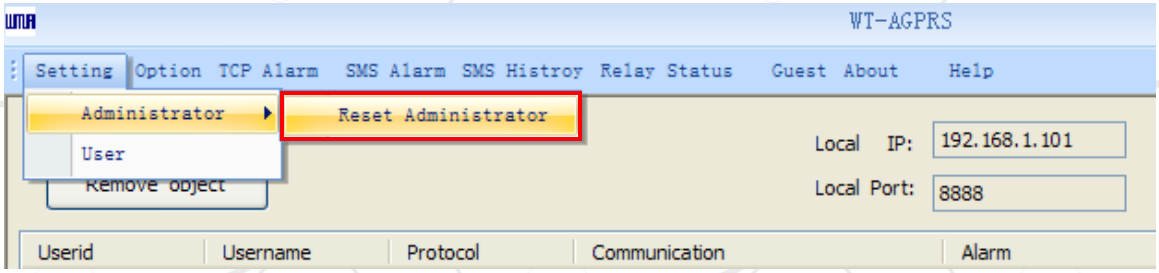


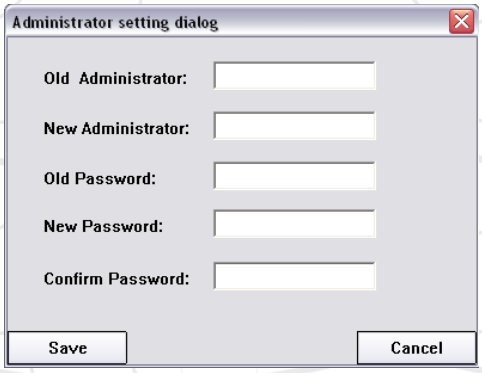
WT_AGPRS software installed successfully.

Launch the WT_AGPRS Software

Step 5: Once finished setup, you will find the WT_AGPRS icon on your desktop. Double click on it and launch the software. When WT_AGPRS is launched for the first time, there is a default Administrator ID "witura" and Password "1234".

Step 6: Once logged into the system, you can change the Administrator ID and Password from the "Setting > Administrator > Reset Administrator" menu.





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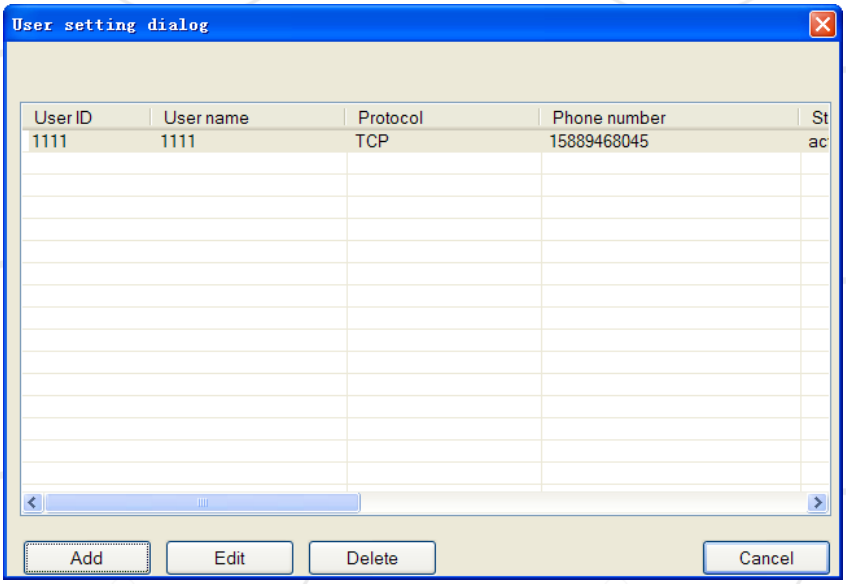
Step 7: Adding New Users

For the first step, add the organization user information by selecting "Setting > User". A smaller window will pop out to prompt you to enter Administrator ID and Password.

After entering the Administrator ID and Password, press Confirm to continue and you shall see the User Setting window as shown below.



To add a new user, simply click on "Add" button. The Administrator may enter User ID, User name, phone number (SIM number of WT-1011RC device), contacts, status, connection type and other details here. Not all the users need to be in active status, i.e. for those inactive user contacts, they will be automatically disabled from the WT_AGPRS software.

To select the connection type **GPRS**, simply select "**TCP**" from the Protocol as shown below. The WT-1011RC device will then use GPRS mode to connect to the WT_AGPRS software.

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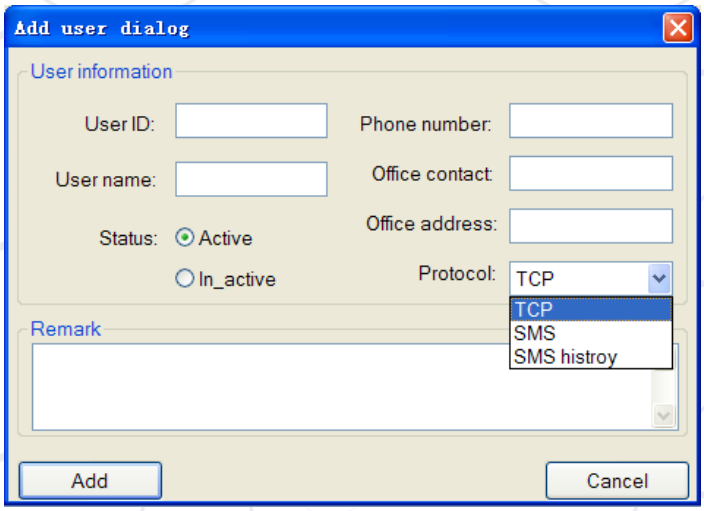
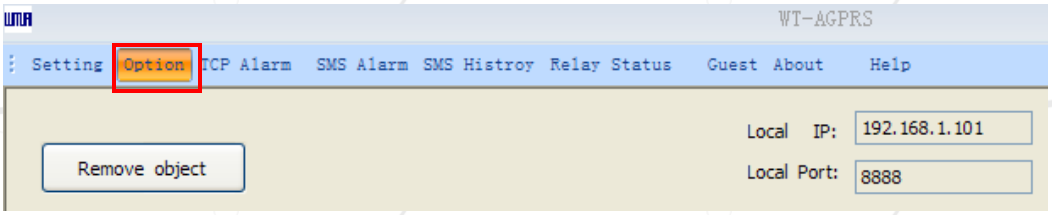


Once the administrator clicks the "Add" button, the user profile will be saved in the system database.

Note: *The administrator may program the users as many as his/her HDD free space can support. The administrator may enter 4 digits numeric numbers only for User ID. The User ID must be the* ***same*** *with the User ID in the WT-1011RC device.*

Step 8: Setup the Connection Port

To setup connection port, simply press "Option" menu. A smaller window will pop up as shown below.



Enter Administrator ID and Password. When WT_AGPRS software is launched for the first time, there is a default Administrator ID "witura" and Password "1234".

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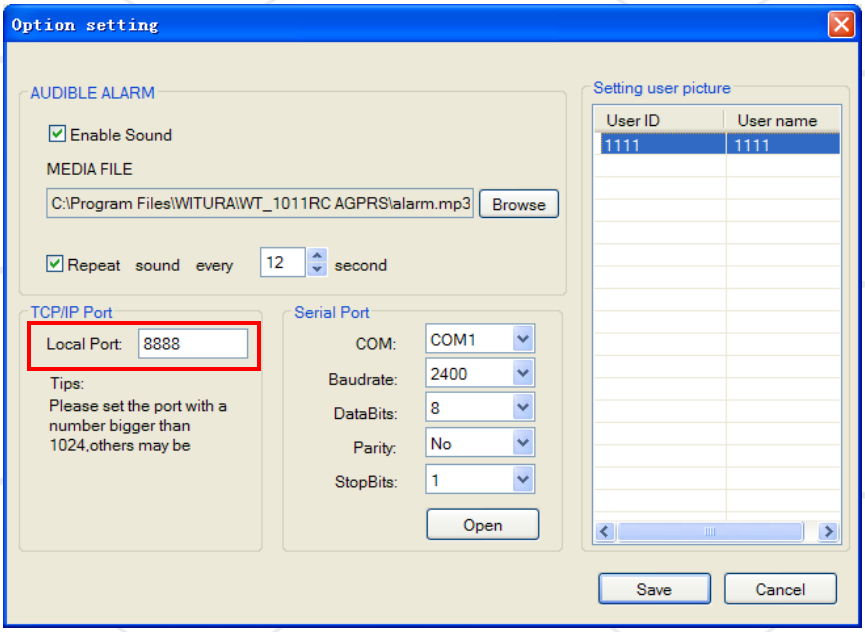
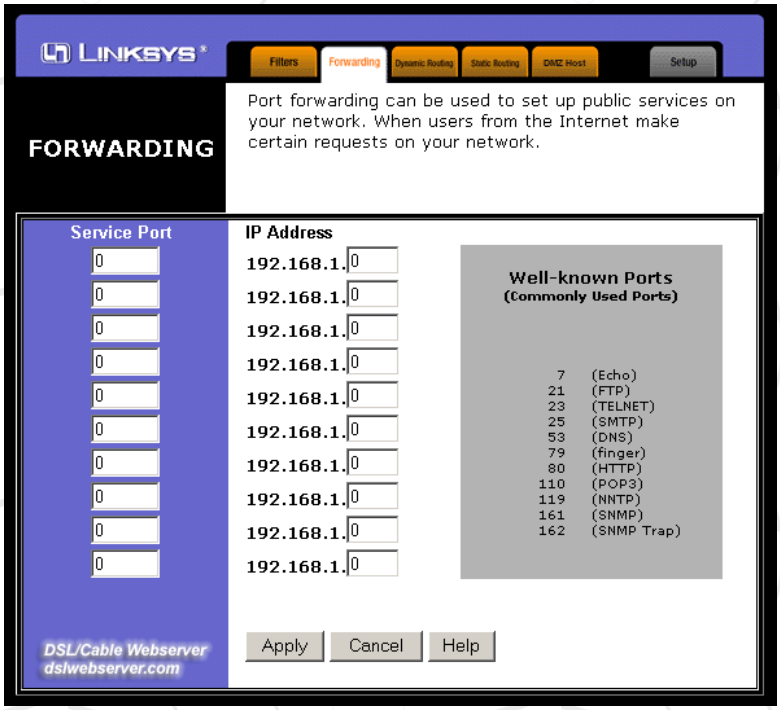


Setup a port number. Press "Save" button to save settings.

Step 9: Setup port forwarding for your router.

The WT_AGPRS software requires an opened port which allows instant connections and data transfer to the software. To do this, you can open up an internet browser and enter the standard IP for your router. Look for a tab with name like, "Port Forwarding" or "Applications and Gaming". Below is an example of Port Forwarding tab from a Linksys router.



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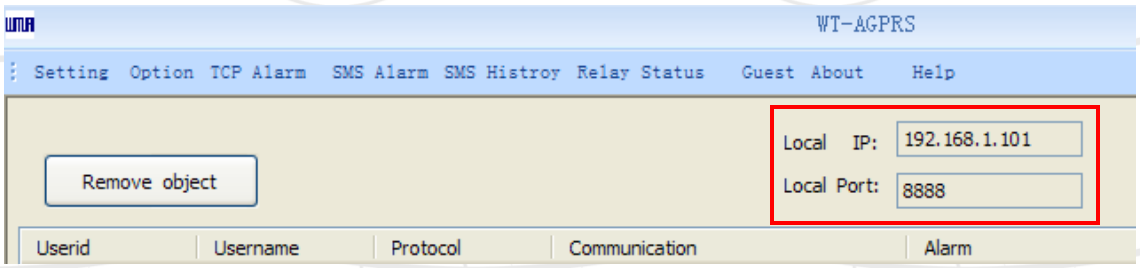
In the "IP Address" field enter the IP address of your computer (Local IP). If your router asks you whether to ports for TCP or UDP select both. In the "Port" field enter the port number that you have created in the software. Some routers offer a from port number to port number, in this case enter the same number into both blanks.



Step 10: Connecting the WT-1011RC Device to the WT_AGPRS Software

To setup a communication between the WT_AGPRS software and the WT-1011RC unit, you need a GPRS enabled SIM card installed into the WT-1011RC device and configure it as listed below:

1

Programming the Administrator Number

Text Command:
***TEL**[N]**#**XXXXXXXXXX

N stands for administrator number **1 - 8**
XXXXXXXXXX stands for the phone number you want to program as administrator.

Example:
To program phone number **1111222233** as administrator into list number **1**, you would send the following SMS command to the unit.
***TEL1#1111222233**

2

Programming the User ID

Text Command:
***USID#**XXXX

XXXX stands for 4 digits numeric numbers

Example:
To program User ID **1111** into the device, you would send the following SMS command to the unit.
***USID#1111**

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3

Setup the GPRS Communication

Text Command:
***GSIP#"**TTT**","**XXX.XXX.XXX.XXX**","**NNNN**"**

TTT stands connection type "**TCP**"
XXX.XXX.XXX.XXX stands for External IP of your router
NNNN stands for Local Port number created from the WT_AGPRS Software

Example:
Assume that you have acquired the External IP address as **123.65.214.231**, port number **8765** and connection type: **TCP**, you would send the following SMS command to the unit.
***GSIP#"TCP","123.65.214.231","8765"**

4

Setup the APN of your SIM Card

Text Command:
***ANET#"**XXXXX…**","**User Name**","**Password**"**

XXXXX… stands for Access Point Name

Example:
To configure the access point name **Vodanet**, you would send the following SMS command to the unit.
***ANET#"Vodanet","abc","123"**

Note: If User name and password is not required, you can just send
***ANET#"Vodanet"**

5

Turn On GPRS Function

Text Command:
***GPRS#**X

X stands for ON (**1**) or OFF (**0**)

Example:
To turn on GPRS function, you would send the following SMS command to the unit.
***GPRS#1**

Note: *It is advised that you should program all other functions before enabling the GPRS function.*

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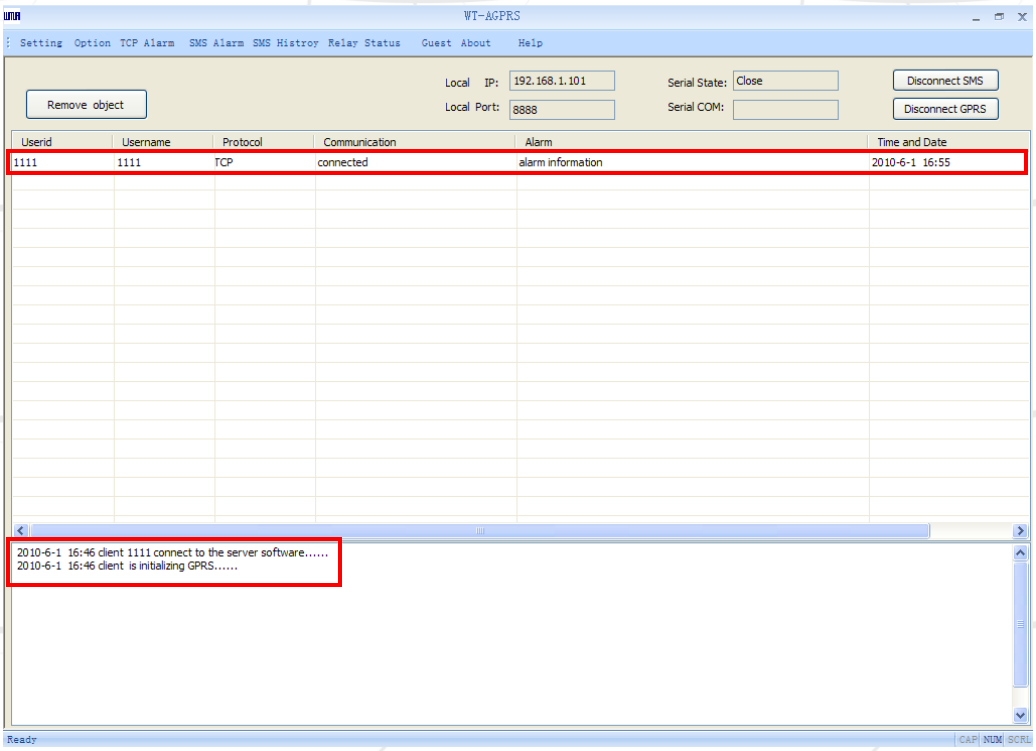
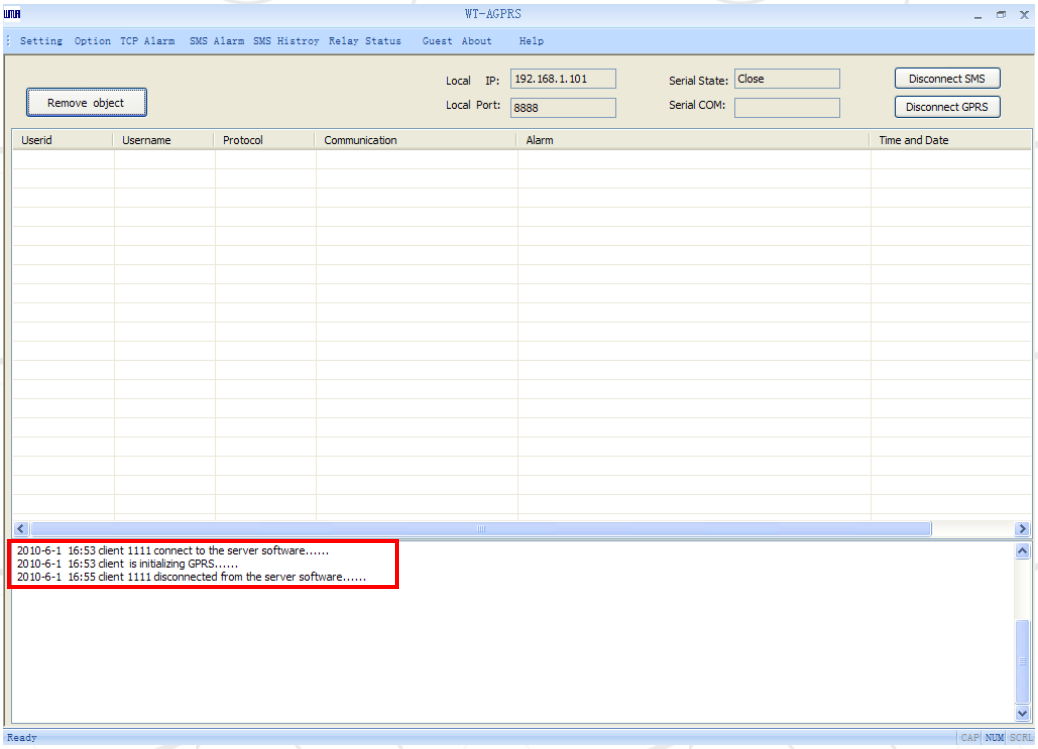
When the WT-1011RC device has connected to the WT_AGPRS software you shall see as below


WT-AGPRS
Setting Option TCP Alarm SMS Alarm SMS Histroy Relay Status Guest About Help
Remove object
Local IP: 192.168.1.101
Local Port: 8888
Serial State: Close
Serial COM:
Disconnect SMS
Disconnect GPRS
Userid Username Protocol Communication Alarm Time and Date
1111 1111 TCP connected alarm information 2010-6-1 16:55
2010-6-1 16:46 client 1111 connect to the server software.....
2010-6-1 16:46 client is initializing GPRS.....
Ready

When the WT-1011RC device disconnected from the WT_AGPRS software due to power down or signal lost you shall see as below


WT-AGPRS
Setting Option TCP Alarm SMS Alarm SMS Histroy Relay Status Guest About Help
Remove object
Local IP: 192.168.1.101
Local Port: 8888
Serial State: Close
Serial COM:
Disconnect SMS
Disconnect GPRS
Userid Username Protocol Communication Alarm Time and Date
2010-6-1 16:53 client 1111 connect to the server software.....
2010-6-1 16:53 client is initializing GPRS.....
2010-6-1 16:55 client 1111 disconnected from the server software.....
Ready

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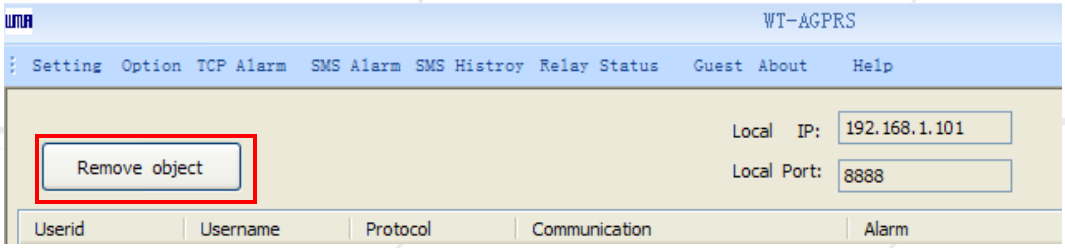
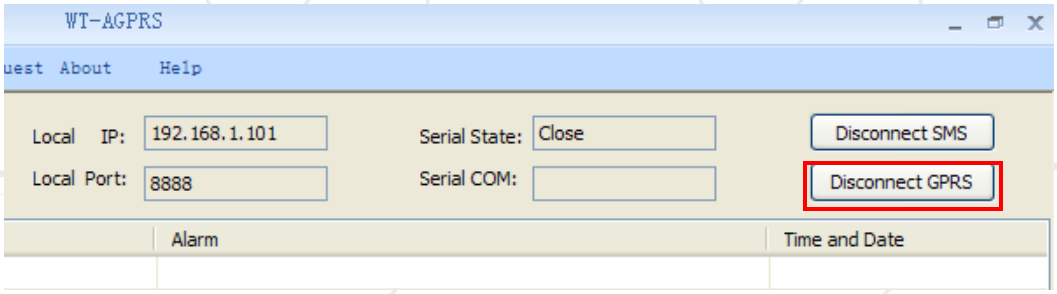
To manually remove the connected WT-1011RC device from the software, you could press the "Remove object" button. The system will then prompt you to enter Administrator ID and password for confirmation.



Note: Removing the connected WT-1011RC device from the list does not permanently disconnect the WT-1011RC device from the software. The WT-1011RC device will still connect to the WT_AGPRS software.

To permanently disconnect the WT-1011RC device from the software, you can select the WT-1011RC device in the list and press the "Disconnect GPRS" button. The system will then prompt you to enter Administrator ID and password for confirmation.



Note: Permanently disconnecting the WT-1011RC device from the list will also disable the GPRS function of the WT-1011RC device. You can always enable the GPRS function later or anytime by sending it a text command.

Step 11: Receiving an Alarm from the WT-1011RC Device

When there is an alarm event, the status will appear at the below incoming status box of WT_AGPRS software as shown below.

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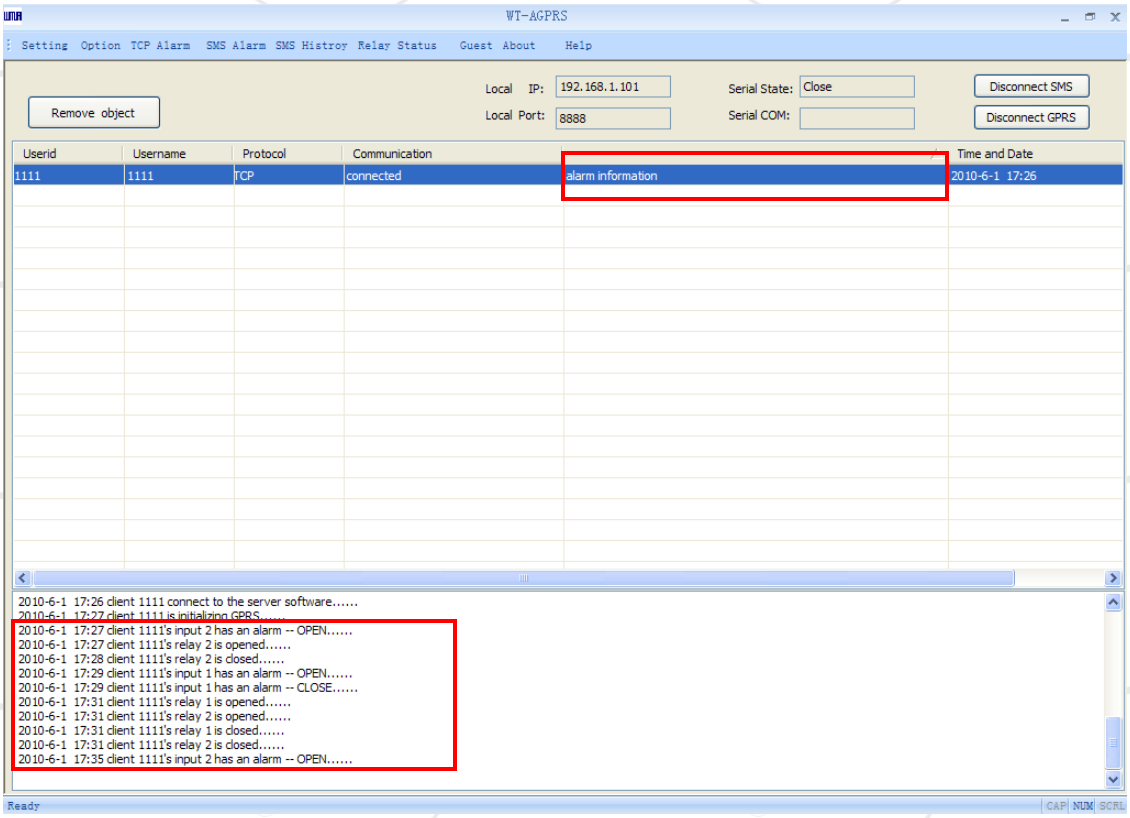
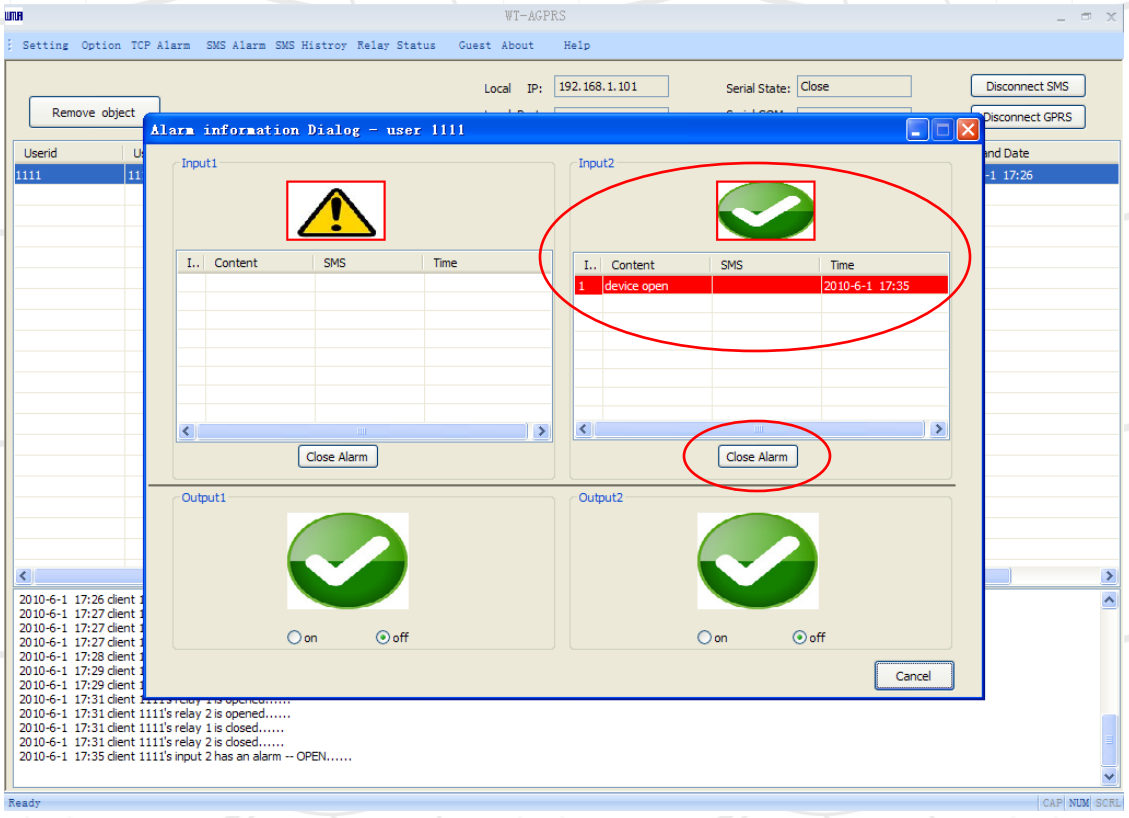

WT-AGPRS
Setting Option TCP Alarm SMS Alarm SMS Histroy Relay Status Guest About Help
Remove object
Local IP: 192.168.1.101
Local Port: 8888
Serial State: Close
Serial COM:
Disconnect SMS
Disconnect GPRS
Userid Username Protocol Communication Time and Date
1111 1111 TCP connected alarm information 2010-6-1 17:26
2010-6-1 17:26 client 1111 connect to the server software.....
2010-6-1 17:27 client 1111 is initializing GPRS.....
2010-6-1 17:27 client 1111's input 2 has an alarm -- OPEN.....
2010-6-1 17:27 client 1111's relay 2 is opened.....
2010-6-1 17:28 client 1111's relay 2 is closed.....
2010-6-1 17:29 client 1111's input 1 has an alarm -- OPEN.....
2010-6-1 17:29 client 1111's input 1 has an alarm -- CLOSE.....
2010-6-1 17:31 client 1111's relay 1 is opened.....
2010-6-1 17:31 client 1111's relay 2 is opened.....
2010-6-1 17:31 client 1111's relay 1 is closed.....
2010-6-1 17:31 client 1111's relay 2 is closed.....
2010-6-1 17:35 client 1111's input 2 has an alarm -- OPEN.....
Ready

Simply double click the **alarm information** for alarm details as shown below.



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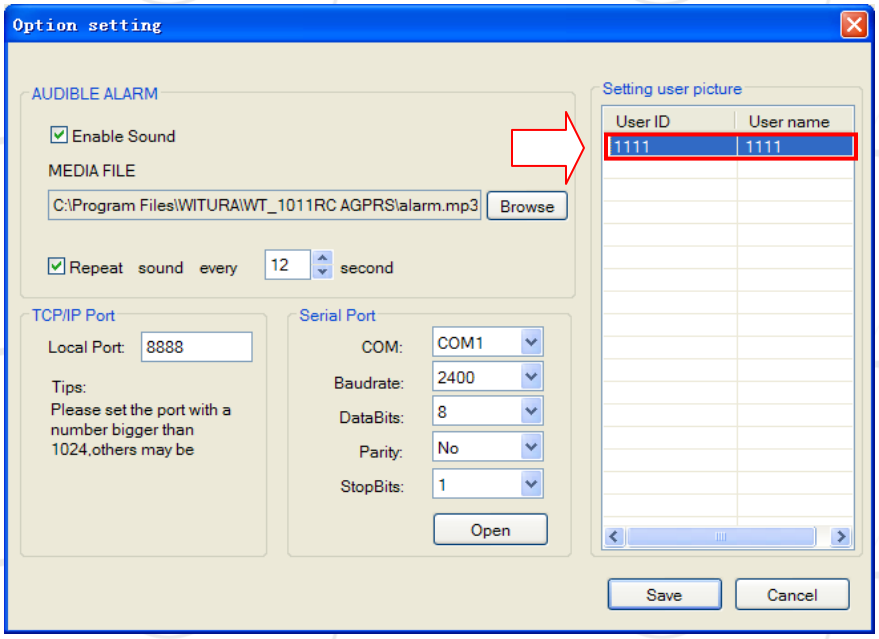
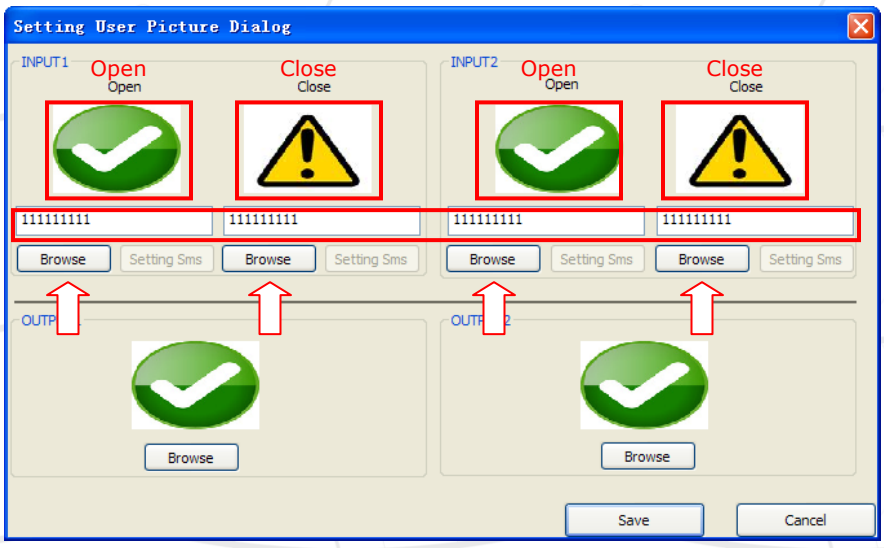
For the example above, Input 2 has triggered. The icon will keep on blinking continuously until it received a confirmation by clicking the Close Alarm button.

Step 12: Changing the Picture Icons of Alarm Status

It is possible to change the display icons of alarm status according to your desire. To change the display icons you can go to the "Option" menu for Option setting. Double click on one of the User ID and a smaller window will pop up as seen below.





Please note that there are 2 icons for each input, the first display icon represents the input triggers at high pulse (Open) and the second display icon represents the input triggers at no pulse (Close). You can also change the alarm description of the input open and close status by

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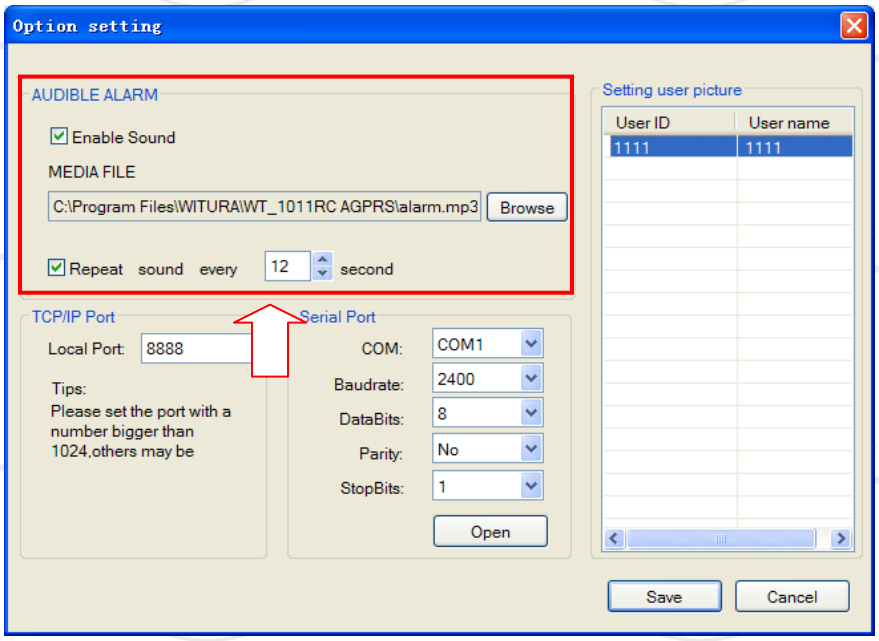
entering a text message at the box below. These alarm description will be shown under SMS Alarm. After setting simply press "Save" button to save.

You are also able to change the alarm sound by adding new media file. Audible alarm will sound when you received incoming alarm events from the WT-1011RC devices.



Step 13: Activate the Output Relays

To activate the output relay of the WT-1011RC device, simply double click the connected device from the list to bring up the status window as shown below

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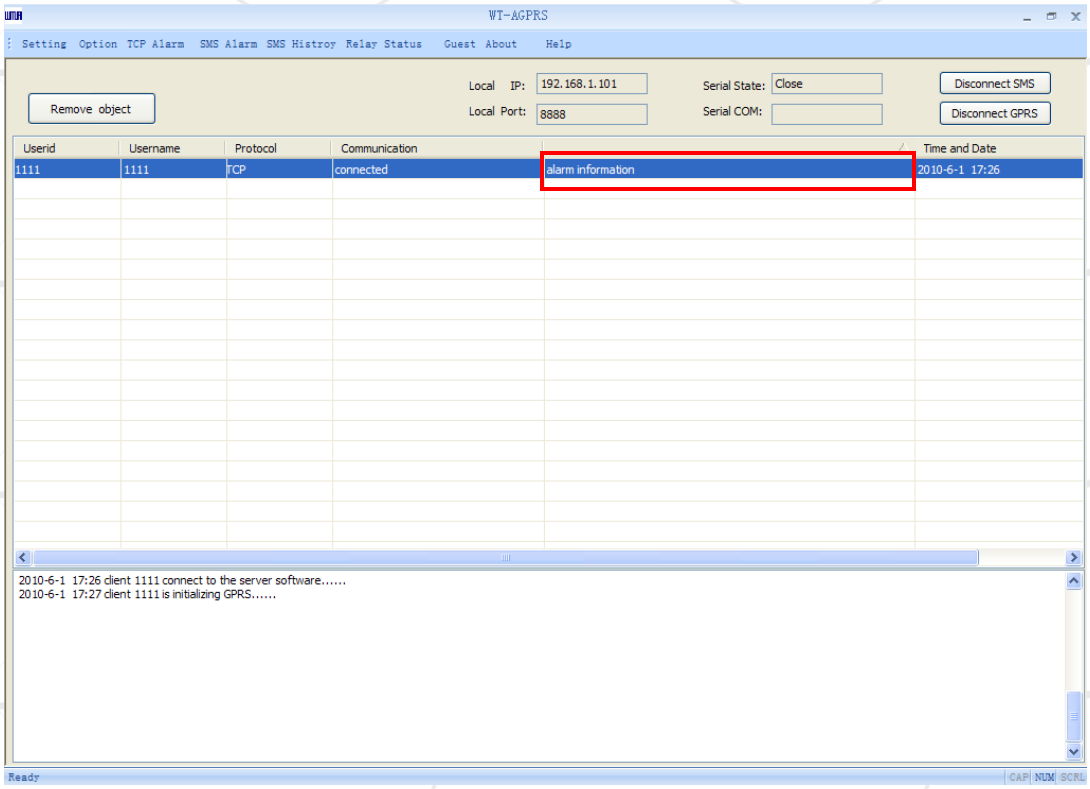
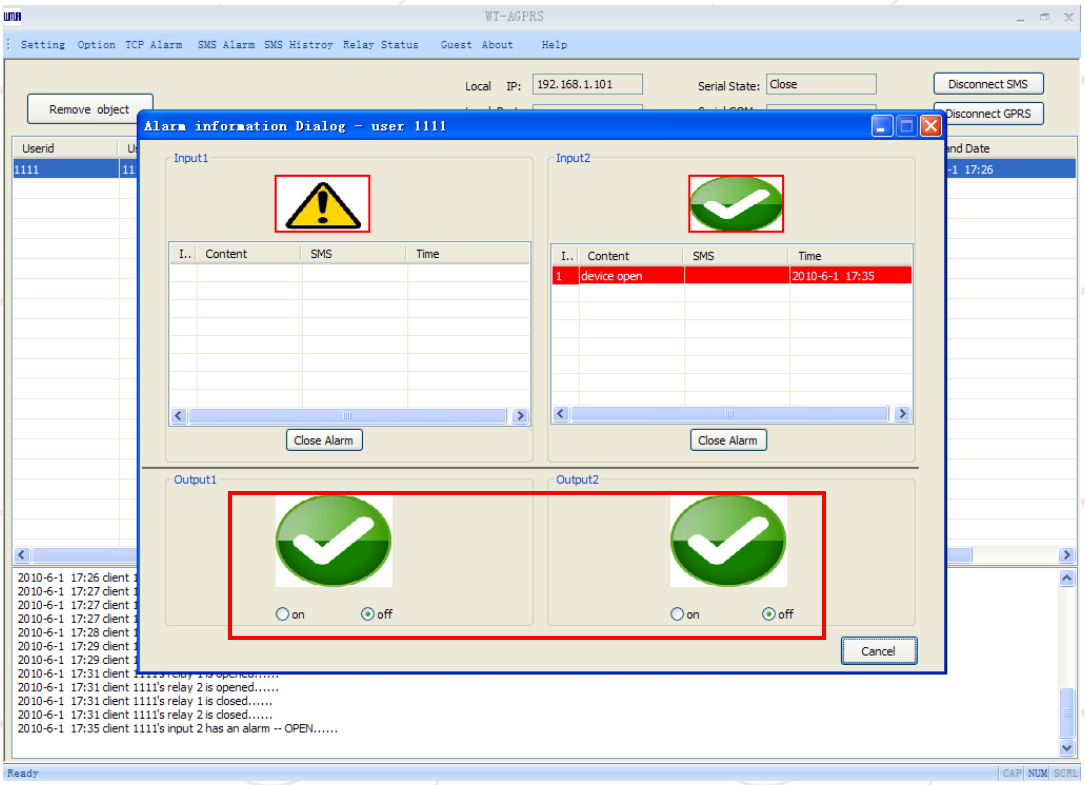

WT-AGPRS
Setting Option TCP Alarm SMS Alarm SMS Histroy Relay Status Guest About Help
Remove object
Local IP: 192.168.1.101
Local Port: 8888
Serial State: Close
Serial COM:
Disconnect SMS
Disconnect GPRS
Userid Username Protocol Communication Time and Date
1111 1111 TCP connected alarm information 2010-6-1 17:26
2010-6-1 17:26 client 1111 connect to the server software.....
2010-6-1 17:27 client 1111 is initializing GPRS.....
Ready



Select "on" to turn on the output relay or "off" to turn off

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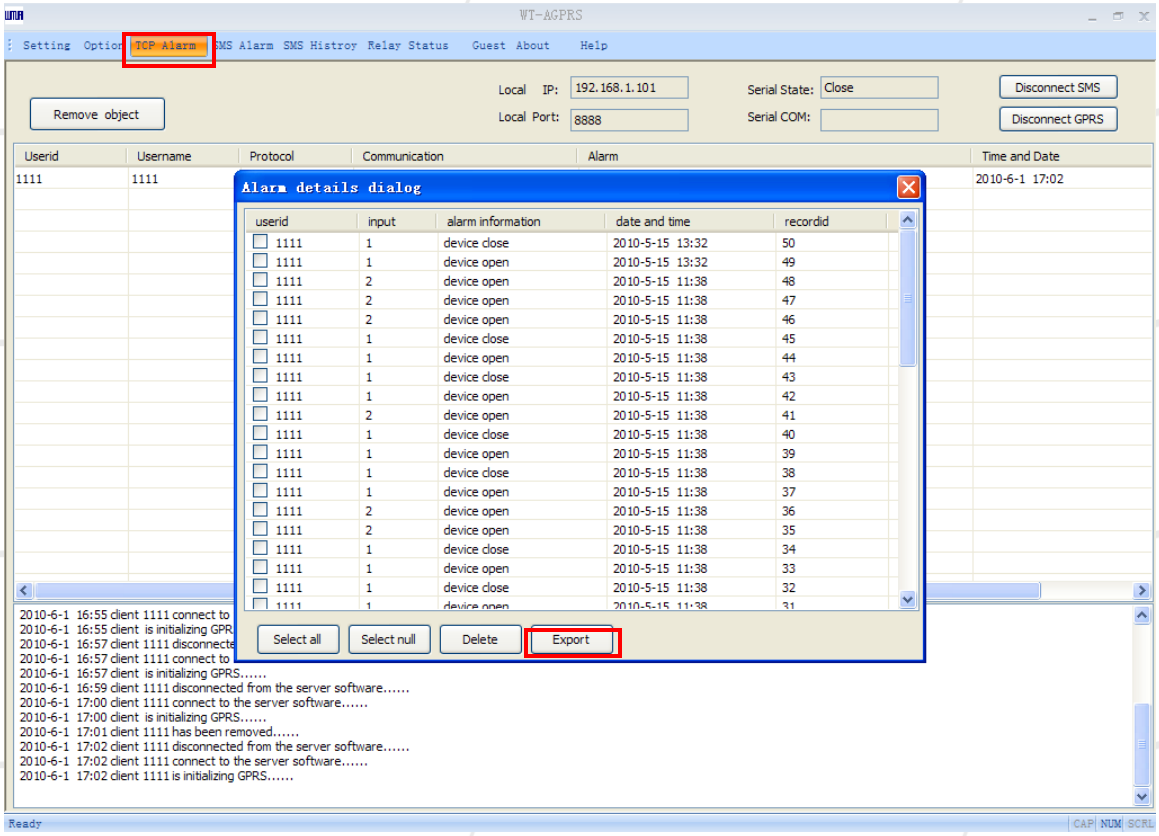
Step 14: Checking the Alarm History Report

To check the Alarm History Report, simply press the "TCP Alarm" menu.



Note: In GPRS mode, all the alarms will be stored under "TCP Alarm"

To delete the alarms, you can manually select the alarms by ticking the check box or press the "Select all" button to select all the alarms and press the "Delete" button to delete. To export the alarms to Excel file simply press the "Export" button indicated above

Step 15: Checking the Output Relay Report

To check the Output Relay Report, simply press the "Relay Status" menu.

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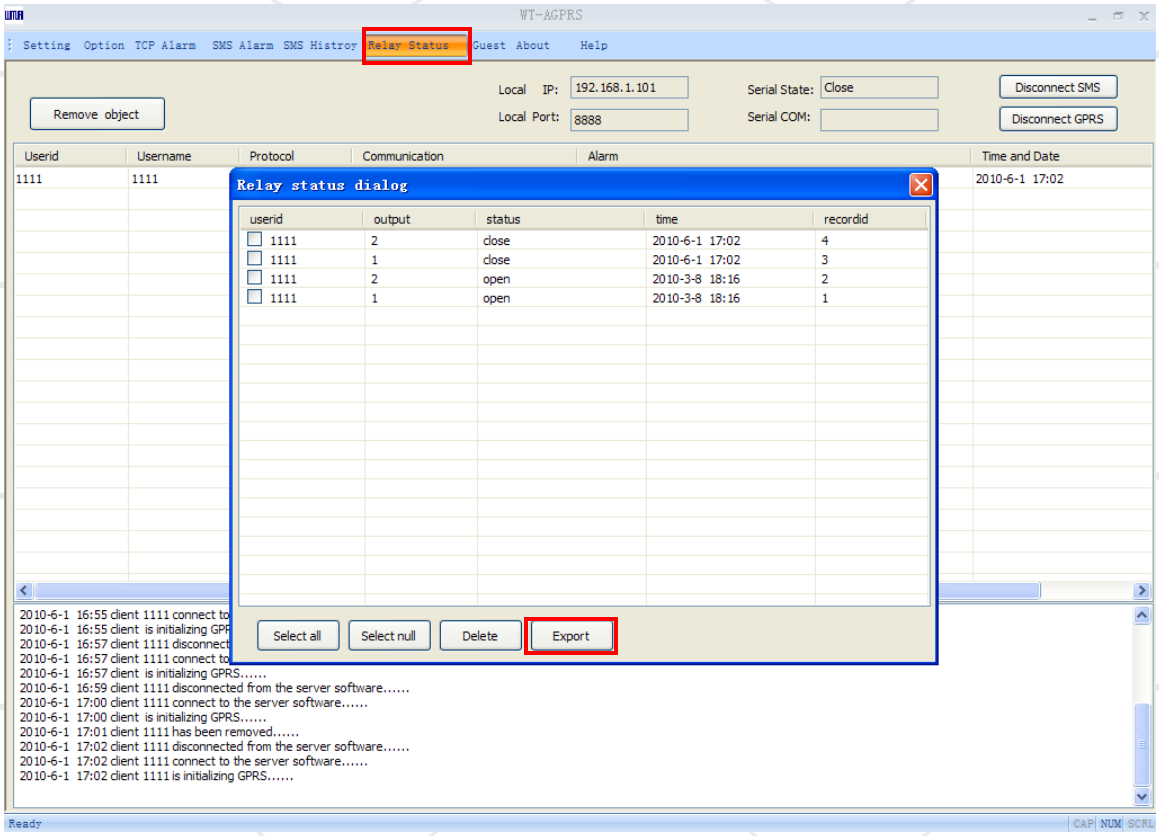
WT-AGPRS
Setting Option TCP Alarm SMS Alarm SMS Histroy Relay Status Guest About Help
Remove object
Local IP: 192.168.1.101
Local Port: 8888
Serial State: Close
Serial COM:
Disconnect SMS
Disconnect GPRS
Userid Username Protocol Communication Alarm Time and Date
1111 1111 2010-6-1 17:02
Relay status dialog
userid output status time recordid
1111 2 close 2010-6-1 17:02 4
1111 1 close 2010-6-1 17:02 3
1111 2 open 2010-3-8 18:16 2
1111 1 open 2010-3-8 18:16 1
Select all
Select null
Delete
Export
2010-6-1 16:55 client 1111 connect to
2010-6-1 16:55 client is initializing GPR
2010-6-1 16:57 client 1111 disconnect
2010-6-1 16:57 client 1111 connect to
2010-6-1 16:57 client is initializing GPRS.....
2010-6-1 16:59 client 1111 disconnected from the server software.....
2010-6-1 17:00 client 1111 connect to the server software.....
2010-6-1 17:00 client is initializing GPRS.....
2010-6-1 17:01 client 1111 has been removed.....
2010-6-1 17:02 client 1111 disconnected from the server software.....
2010-6-1 17:02 client 1111 connect to the server software.....
2010-6-1 17:02 client 1111 is initializing GPRS.....
Ready
CAP NUM SCRL

To delete the status logs, you can manually select the status by checking the check box or press the "Select all" button to select all and press the "Delete" button to delete. To export the status logs to Excel file simply press the "Export" button indicated above

Step 16: Checking the Guest Report

To check the Guest Report, simply press the "Guest" menu. It will show you all the guest users who operate the output relay.

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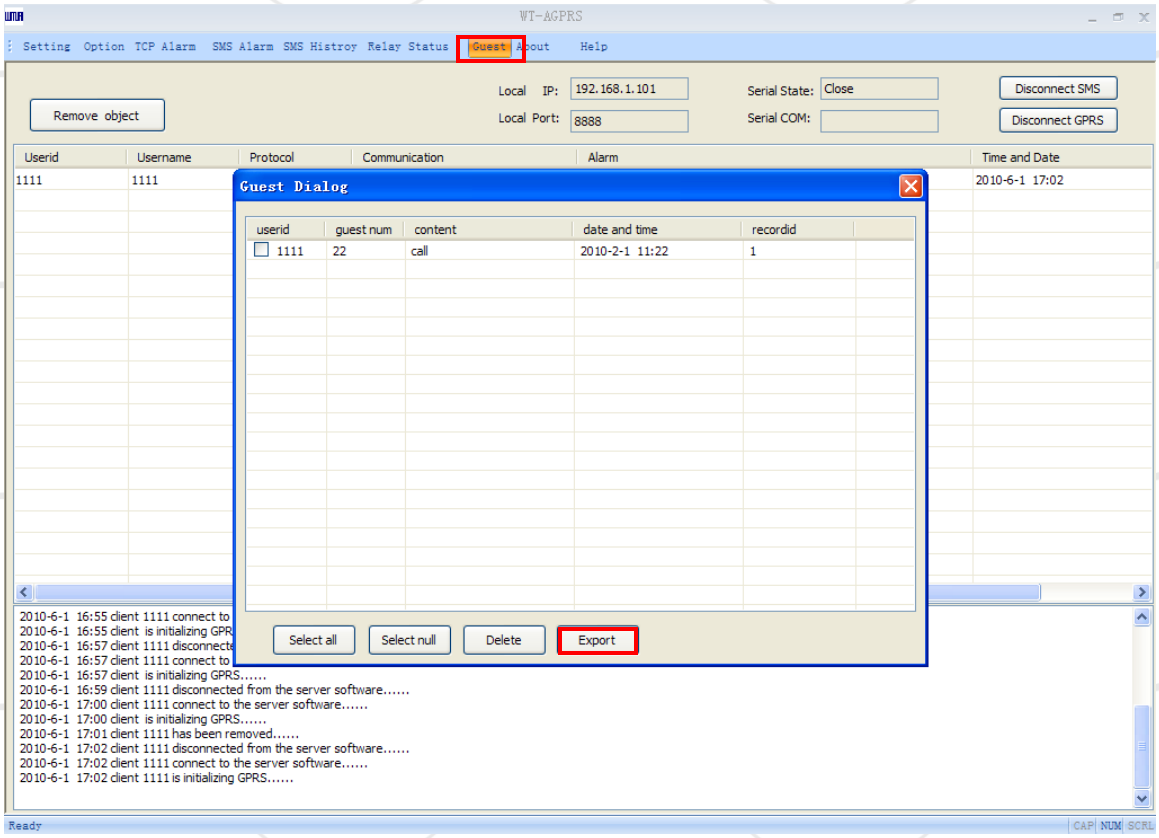
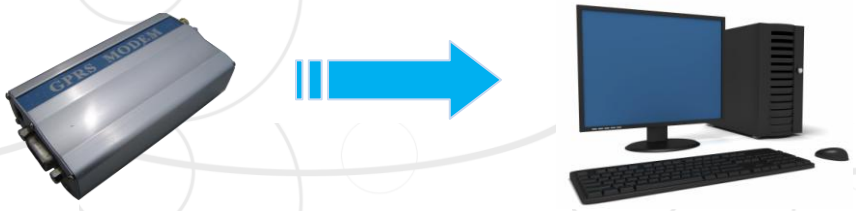

WT-AGPRS
Setting Option TCP Alarm SMS Alarm SMS Histroy Relay Status Guest About Help
Remove object
Local IP: 192.168.1.101
Local Port: 8888
Serial State: Close
Serial COM:
Disconnect SMS
Disconnect GPRS
Userid Username Protocol Communication Alarm Time and Date
1111 1111 2010-6-1 17:02
Guest Dialog
userid guest num content date and time recordid
1111 22 call 2010-2-1 11:22 1
Select all
Select null
Delete
Export
2010-6-1 16:55 client 1111 connect to
2010-6-1 16:55 client is initializing GPR
2010-6-1 16:57 client 1111 disconnecte
2010-6-1 16:57 client 1111 connect to
2010-6-1 16:57 client is initializing GPRS.....
2010-6-1 16:59 client 1111 disconnected from the server software.....
2010-6-1 17:00 client 1111 connect to the server software.....
2010-6-1 17:00 client is initializing GPRS.....
2010-6-1 17:01 client 1111 has been removed.....
2010-6-1 17:02 client 1111 disconnected from the server software.....
2010-6-1 17:02 client 1111 connect to the server software.....
2010-6-1 17:02 client 1111 is initializing GPRS.....
Ready
CAP NUM SCRL

To delete the reports, you can manually select the status by checking the check box or press the "Select all" button to select all and press the "Delete" button to delete. To export the reports to Excel file simply press the "Export" button indicated above

Step 17: Setup SMS Mode for WT-1011RC device

The WT_AGPRS software can be configured to receive alarms or operate the output relays of the WT-1011RC devices by SMS. To do this you need to plug in a WT-211 SMS modem to your computer and program the first administrator number as the SIM number of the WT-211 SMS modem into the WT-1011RC device.



WT-211 SMS Modem **Computer**

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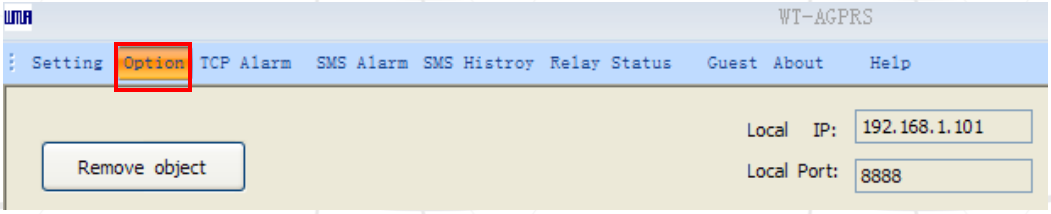
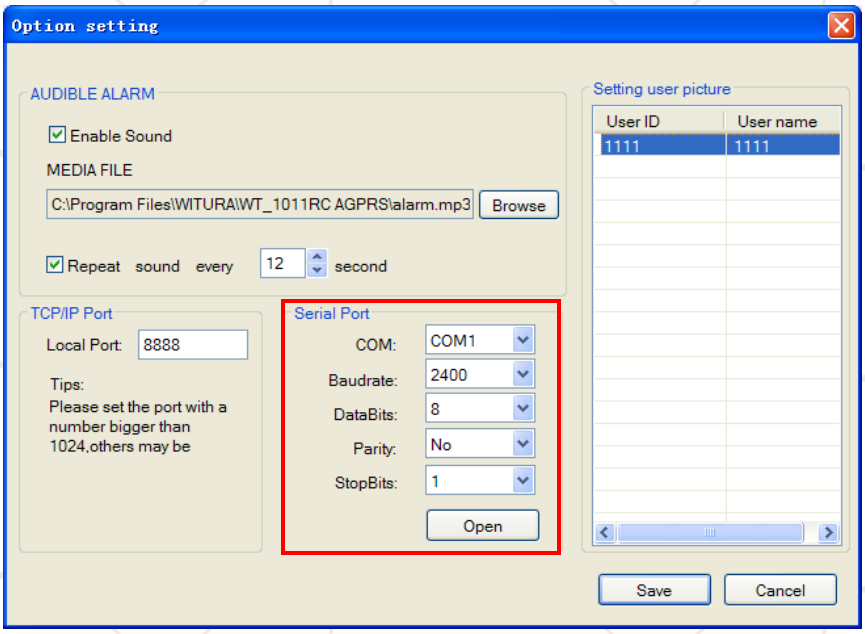
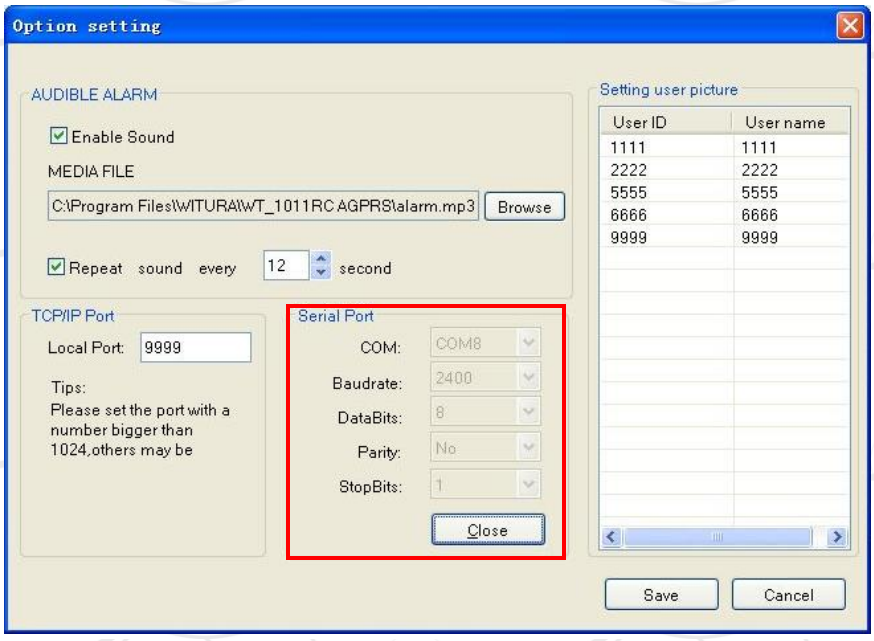
Then go to "Option" menu





Select a COM port that the WT-211 SMS modem has connected to and press "Open"



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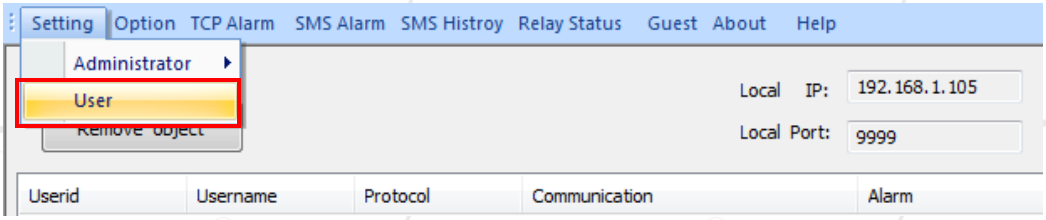
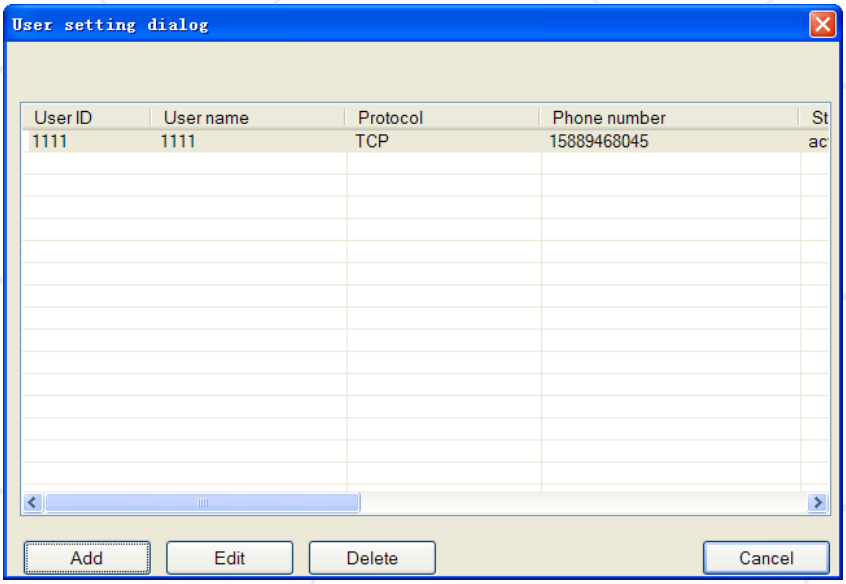
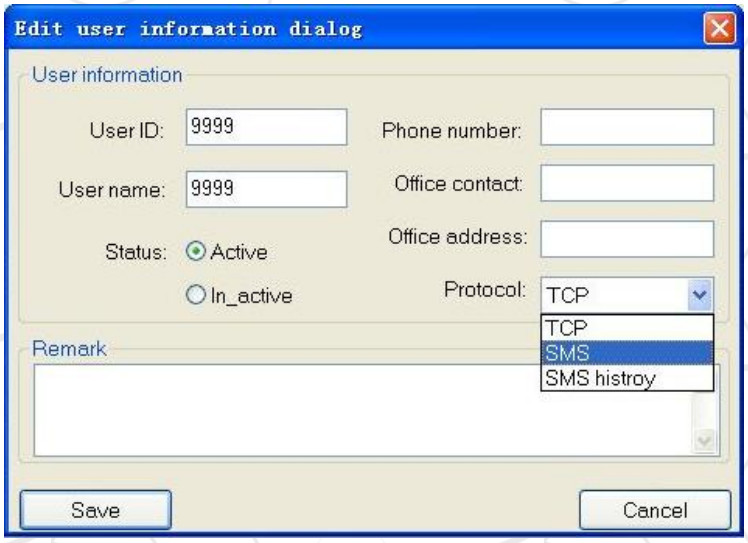
When the port has connected successfully it shall look like the above

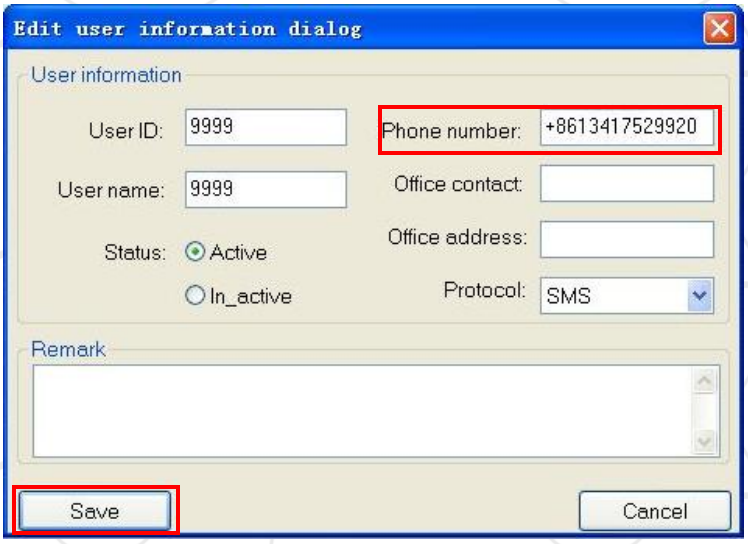
Next proceed to adding user list





Add a new user, click on "Add" button.
Select the connection type **SMS**, simply select "**SMS**" from the Protocol as shown below. The software will then use SMS mode to receive alarms from the WT-1011RC device.





Please ensure that you have entered the correct Phone number of the WT-1011RC device before saving the user profile.

To make this work, you must program the Input Alert Message content of the WT-1011RC device with a specific command. With this commands, the WT_AGPRS software will be able to tell which input alarm. Follow the below custom command table when do programming.

Custom SMS command:

State	SMS command to be programmed into WT-1011RC
Input 1 Open (High Pulse)	***STR1#Input1=1#**[Any text description here for alarm]
Input 1 Close (No Pulse)	***STO1#Input1=0#**[Any text description here for alarm]
Input 2 Open (High Pulse)	***STR2#Input2=1#**[Any text description here for alarm]
Input 2 Close (No Pulse)	***STO2#Input2=0#**[Any text description here for alarm]

Note: Remember to enable the functions on the WT-1011RC device so that it is able to send SMS. For more details please refer to WT-1011RC User Manual.

Once saved you will notice that the WT-1011RC device appeared immediately on the list as shown below unlike the GPRS mode where you will have to wait for the WT-1011RC device to connect to the software.

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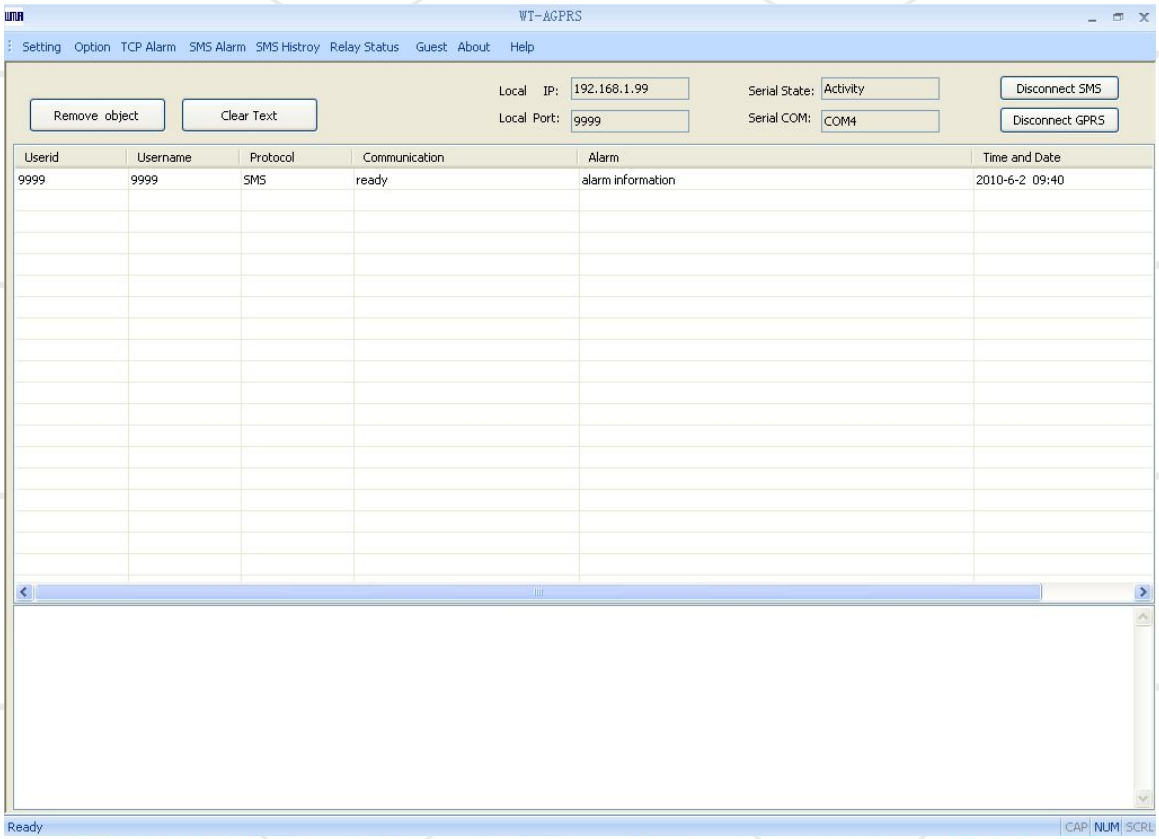
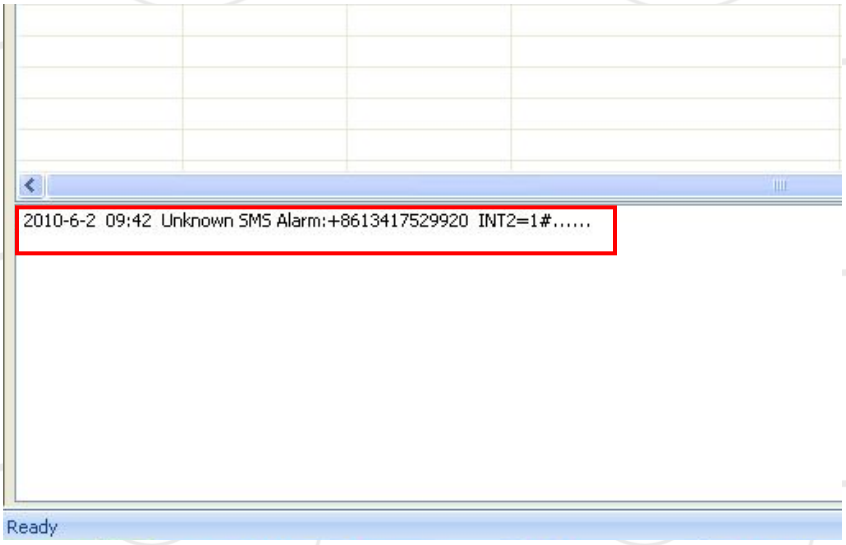


Note: For SMS mode, please ensure that the GPRS is disabled on the WT-1011RC device and the first Administrator number must be the SIM number of WT-211 SMS modem.

When it received incoming Unknown messages it will display as shown below



When there is an alarm event, a red indicator will appear at the Alarm tab of WT_AGPRS software as shown below.

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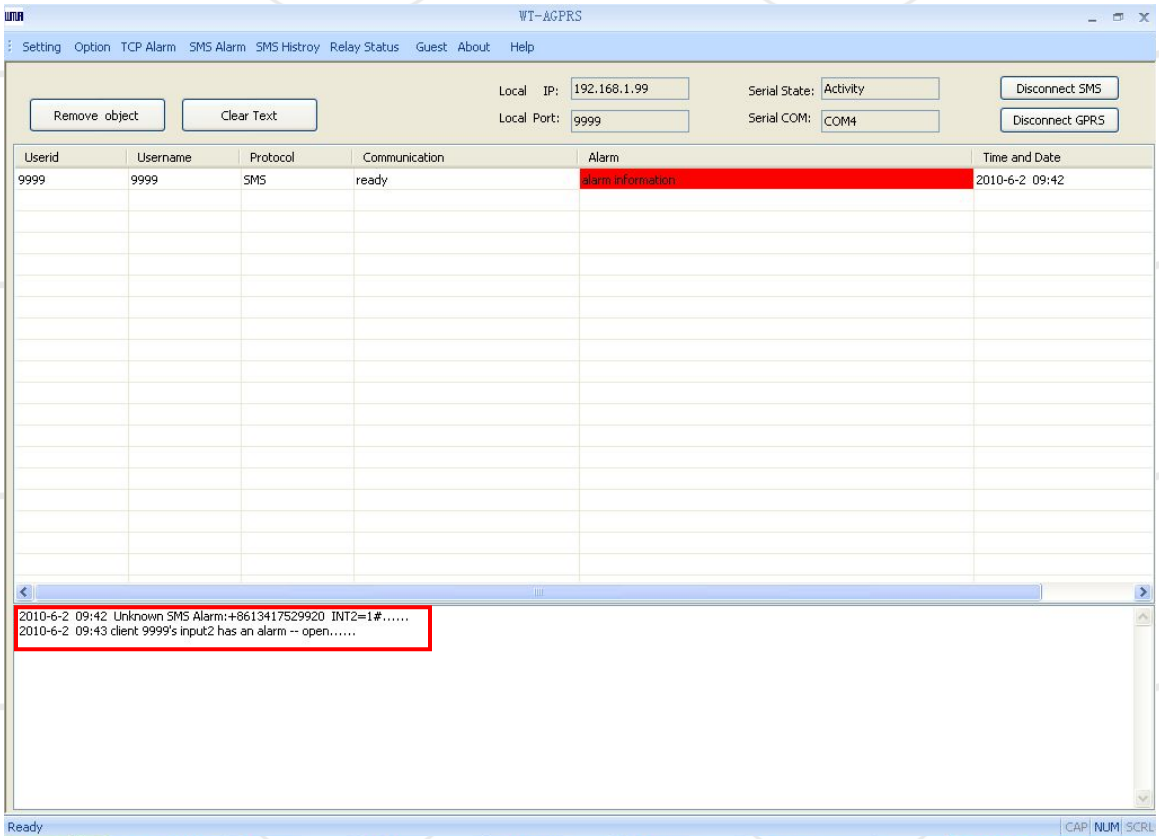
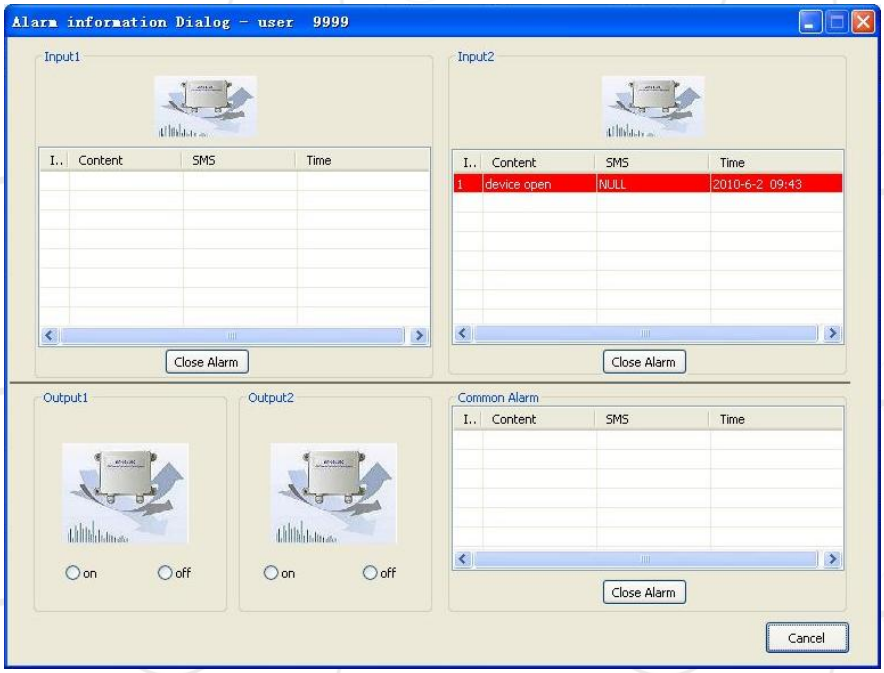

WT-AGPRS
Setting Option TCP Alarm SMS Alarm SMS Histroy Relay Status Guest About Help
Remove object
Clear Text
Local IP: 192.168.1.99
Local Port: 9999
Serial State: Activity
Serial COM: COM4
Disconnect SMS
Disconnect GPRS
Userid Username Protocol Communication Alarm Time and Date
9999 9999 SMS ready alarm information 2010-6-2 09:42
2010-6-2 09:42 Unknown SMS Alarm:+8613417529920 INT2=1#.....
2010-6-2 09:43 client 9999's input2 has an alarm -- open.....
Ready
CAP NUM SCRL

Simply double click the red indicator for alarm details.



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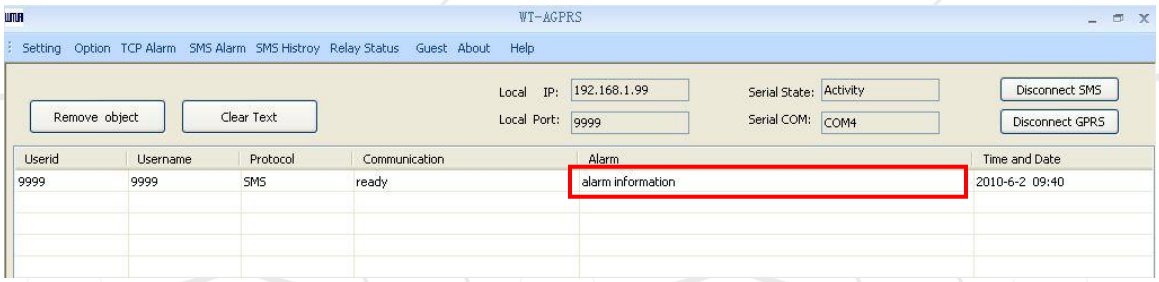
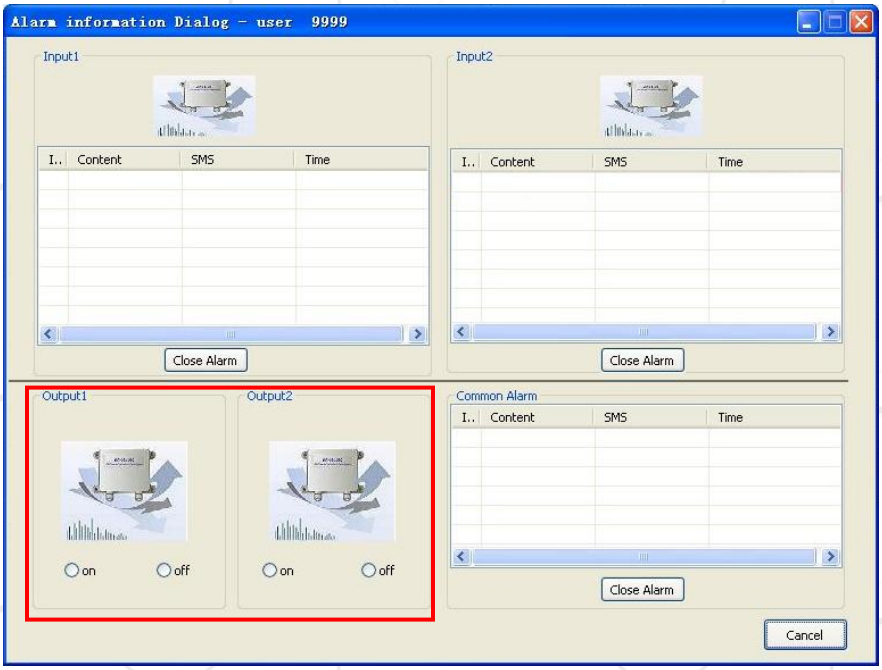
Step 18: Activate the Output Relays on SMS mode

To activate the output relay of the WT-1011RC device, simply double click the connected device from the list to bring up the status window as shown below

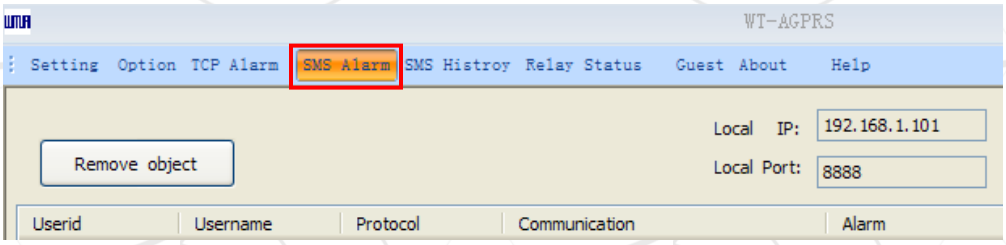

WT-AGPRS
Setting Option TCP Alarm SMS Alarm SMS Histroy Relay Status Guest About Help
Remove object
Clear Text
Local IP: 192.168.1.99
Local Port: 9999
Serial State: Activity
Serial COM: COM4
Disconnect SMS
Disconnect GPRS
Userid Username Protocol Communication Alarm Time and Date
9999 9999 SMS ready alarm information 2010-6-2 09:40



Select "on" to turn on the output relay or "off" to turn off

Step 19: Checking the SMS Alarm History

To check the SMS Alarm History, simply press the "SMS Alarm" menu.


WT-AGPRS
Setting Option TCP Alarm SMS Alarm SMS Histroy Relay Status Guest About Help
Remove object
Local IP: 192.168.1.101
Local Port: 8888
Userid Username Protocol Communication Alarm

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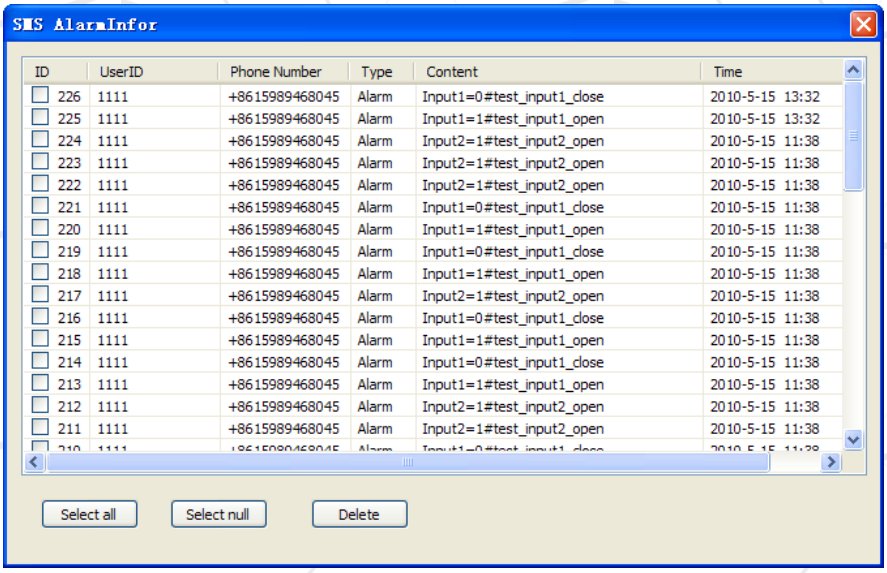

To delete the alarms, you can manually select the alarms by ticking the check box or press the "Select all" button to select all the alarms and press the "Delete" button to delete. To export the alarms to Excel file simply press the "Export" button indicated above

Step 20: Logout the System

To logout the system, simply click the X button on the top right.

Notice: In this manual, we do not cover "SMS History" as this function is for another application.

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